Immagina Biotechnology S.r.l.
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PAGExt consist of 5 tubes containing aqueous solutions, salts enzymes, oligos, and detergents.
Components list:

- RNA Extraction Buffer (REB)
- DNA Extraction Buffer (DEB)
- TR buffer (TR)
- Marker M1
- Marker M2

A Safety Data Sheet is provided for Sodium Acetate, Tris-EDTA, EDTA, Sodium Dodecyl Sulfate (SDS).
The Marker 1 (M1), Marker 2 (M2) are present at concentrations <0.1% and are not known to be hazardous.

PAGExt doesn't contain any animal or biological material.

IMMAGINA BIOTECHNOLOGY srl recommends all normal precautions. We recommend always wearing gloves and avoiding direct contact with skin and eyes when handling biochemical and chemical reagents and solutions. Information in this MSDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and IMMAGINA BOTECHNOLOGY srl assumes no liability resulting from the use of this MSDS. The user must determine suitability of this information for his application.

Section 1: Company and Chemical Identification

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Chemical Name: This MSDS contains information about Sodium Dodecyl Sulfate (SDS) and applies to IMMAGINA BIOTECHNOLOGY product RNA Extraction Buffer (REB) (#IBT0381)

Section 2: Composition and Information on Hazardous Ingredients

Component
Sodium Dodecyl Sulfate (SDS)

CAS No 151-21-3
% Wt 0.5 -10%

Hazardous Yes **Chemical Formula**: $C_{12}H_{25}NaO_4S$
Molecular Weight 288,4 g/mol **Appearance:** SDS is provided as a component of a solution.

Section 3: Hazards Identification

Hazard statements
H228 Flammable solid
H302+H332 Harmful if swallowed or if inhaled
H315 Causes skin irritation
H318 Causes serious eye damage
H335 May cause respiratory irritation
H412 Harmful to aquatic life with long lasting effects

Precautionary statements - prevention
P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking
P261 Avoid breathing dust
P280 Wear protective clothing/eye protection
Precautionary statements - response
P302+P352 IF ON SKIN: Wash with plenty of water

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 Call a POISON CENTRE/doctor if you feel unwell

Section 4: First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion: Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.
Skin contact: Immediately flush skin with copious amounts of soap and water. Remove contaminated clothing and shoes. Get medical attention. Wash and clean clothing and shoes before reuse.
Eye contact: Immediately flush eyes with copious amounts of water for 15 minutes, lifting lower and upper eyelids occasionally. Get medical immediate medical attention.

Section 5: Fire Fighting Measures

Fire: Solid SDS is categorized as a flammable solid.
Explosion: Solid SDS is a fine dust and may be an ignition source.
Flash Point: The flash point of this solution has not been tested but should be greater than 100°C.
Extinguishing Media: water, alcohol foam, carbon dioxide, dry chemical
Special fighting Procedures: Wear full protective equipment, including an approved, self-contained breathing apparatus.
Unusual fire or explosion hazards: Emits toxic fumes when heated to decomposition. Can react with oxidizing agents.

Section 6: Accidental Release Measures

Spill/Release Information:
Wear appropriate protective clothing such as gloves. Dike material with a suitable inert absorbent. Place in a suitable waste container. Avoid contact with skin and eyes.
Waste Disposal Method:
Depending on size of spill and degree of hazard it may be possible to dispose in drain with excess water. Scrub area of spill thoroughly with soap and water, rinse with plenty of water to drain.----------
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Section 7: Handling and Storage

Precautions to be taken in handling and storing:
For protection of material, store away from oxidizing materials.

Section 8: Exposure Controls/Personal Protection

Airborne Exposure Limits: Not established
Respiratory Protection: Use appropriate respiratory protection approved by NIOSH or appropriate organization.
Ventilation: Mechanical (general) or local exhaust as needed.
Protective gloves: Yes
Eye protection: Yes
Other protective clothing or Equipment: Wear a lab coat. Have access to safety shower and eye wash.
Work/Hygienic practices: Avoid contact with eyes skin and clothing. Wash thoroughly after handling. Avoid prolonged or repeated exposure.

Section 9: Physical and Chemical Properties

Appearance: clear or white cloudy liquid
Odor: slight fatty odor.
Solid SDS is soluble in water at 10 g/100 g water.
Specific gravity of solid: 0.4 @15°C/4°C
Percent volatiles by volume @21°C 0
No information of boiling point, melting point, vapor density, vapor pressure and evaporation rate.

Section 10: Stability and Reactivity

Stability: stable under normal conditions
Conditions to avoid: Strong oxidants, heat flames, ignition sources
Incompatibility (materials to avoid): Can react with oxidizing agents and acids.
Hazardous decomposition products: Emits toxic fumes when heated to decomposition including carbon monoxide, carbon dioxide and sulfur oxides.
Hazardous polymerization: Will not occur under normal conditions
Routes of entry: Ingestion.
Most of the hazards (such as irritation of lungs) associated with SDS are related to its powder form.
Health hazards: May cause irritation of skin or eyes. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Section 11: Toxicological Information

Toxicity Data: Oral rat LD50: 1288 mg/kg; Inhalation rat LC50: > 3900 mg/kg; IPR-RAT LD50: 210 gm/kg, IVN-RAT LD50: 118 mg/kg; IPR-MUS LD50: 250 mg/kg; IVN-MUS LD50: 118 mg/kg
Irritation Data: skin human, Standard Draize, 25 mg/24-hour, mild; eye rabbit, standard Draize, 250 µg, mild.
Investigated as a mutagen, reproductive effector.
Reproductive Toxicity: Has caused mutagenic and teratogenic effects on laboratory animals.
Threshold limit value (TLV): not available
Carcinogenicity: None known or anticipated **IARC Category:** None
Signs and symptoms of overexposure: Systemic symptoms: nausea, vomiting, chills, cramps and lethargy.

Section 12: Ecological Information

Environmental Fate: No information available.
Environmental toxicity: 96 hr LC50 fathead minnow (fry): 10.2 mg/L; (juvenile): 17 mg/L; (adult): 22.5 mg/L; 96 hour LC50 rainbow trout: 4.6 mg/L (Static)

Section 13: Disposal Considerations

Dispose of material and container in accordance with appropriate federal, state and local laws. Recover and recycle if possible. Processed material may require different disposal methods.

Section 14: Transport Information

Domestic (Land, D.O.T)
No special precautions required for this solution.

Section 15: Regulatory Information

Inventory Status: TSCA: Yes EC: Yes Japan: Yes Australia: Yes
Canada Korea: Yes DSL: Yes NDSL No Phil. Yes
SARA 302: RQ: No TPQ: No Sara 313: List: No Chemical Category:
No CERCLA No RCRA261.33 No TSCA8(d) No

Chemical weapons convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute Yes chronic: Yes Fire: Yes Pressure: No Reactivity: No
Australian Hazchem code: None allocated.
Poison schedule: None allocated.
WHMIS: This MSDS contains the information required by the Controlled Products Regulations.

Section 16: Other Information

Label hazard warning: WARNING! harmful if swallowed or inhaled. Causes irritation to skin, eyes and respiratory tract. May caused allergic skin or respiratory reaction. Flammable solid.
Label Precautions: Do not breathe dust. Avoid contract with skin and clothing. Wash thoroughly and handling. Use only in well ventilated area. Keep container closed. Keep away from heat, sparks and flame. Product Use: Laboratory reagent
The above information is offered in good faith as accurate, but without guarantee, and should be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It doesn't represent any guarantee of the properties of the product. IMMAGINA BIOTECHNOLOGY srl shall not be held liable for any damage resulting from handling of from contact with the above product. All risks of use of the product should be assumed by the user.

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Chemical Name: This MSDS contains information about Sodium Acetate and applies to IMMAGINA BIOTECHNOLOGY product RNA Extraction Buffer (REB) (#IBT0381)

Section 2: Composition and Information on Hazardous Ingredient

Component **Sodium acetate**
CAS No 6131-90-4
Concentration 3M
Synonyms Acetic acid, sodium salt, trihydrate

Section 3: Hazards Identification

Hazard statements

H226 Flammable liquid and vapour

H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage

Precautionary statements - prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P260 Do not breathe dusts or mists.

P280 Wear eye protection/face protection.

Precautionary statements - response

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher for extinction.

Precautionary statements - storage

P403+P235 Store in a well-ventilated place. Keep cool.

Section 4: First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Section 5: Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH
(approved or equivalent), and full protective gear. Combustion generates toxic fumes.
Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.
Autoignition Temperature: 599 deg C (1,110.20 deg F)
Flash Point: No information found.
NFPA Rating: Health-1; flammability-1; reactivity-0
Explosion Limits: Lower: n/a Upper: n/a

Section 6: Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Place under an inert atmosphere. Do not get water inside containers.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust.
Storage: Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment
Eyes: Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear appropriate protective eyeglasses or chemical safety goggles as described in 29 CFR 1910.133.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9: Physical and Chemical Properties

Physical State: Crystalline powder
Color: White

Odor: Odorless
pH: 8.9 (1M aq soln)
Vapor Pressure: Not available
Vapor Density: Not available
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: 253°F
Freezing/Melting Point: 136°F
Decomposition Temperature: Not available
Solubility in water: Soluble
Specific Gravity/Density: 1.45
Molecular Formula: C2H3O2Na.3H2O
Molecular Weight: 136.08

Section 10: Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to Avoid: Exposure to moist air or water.
Incompatibilities with Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11: Toxicological Information

RTECS: CAS# 6131-90-4: AJ4580000
LD50/LC50: CAS# 6131-90-4: Not available
Carcinogenicity: CAS# 6131-90-4: Not listed by ACGIH, IARC, NTP, or CA Proposition 65.
Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive: No information available.
Mutagenicity: Mutagenic effects have occurred in experimental animals.
Neurotoxicity: No information available.

Section 12: Ecological Information

Ecotoxicity: No data available. Acute aquatic effects (for anhydrous sodium acetate)96-hour LC50; Fathead minnow: GT 100 mg/L 96-hour LC50; Water flea: GT 1000 mg/L. This chemical has a high biological oxygen demand, and it is expected to cause significant oxygen depletion in aquatic systems. It has a low potential to affect aquatic organisms.
Environmental: This chemical is readily biodegradable and is not likely to bioconcentrate.
Physical: None reported

Section 13: Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14: Transport Information

US DOT

Shipping Name: Not regulated.

Section 15: Regulatory Information

US Federal
TSCA:

CAS# 6131 -90 -4 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)).

SARA Reportable Quantities (RQ):

CAS# 6131-90-4 does not have a RQ.

CERCLA/SARA Section 313:

Not reportable under Section 313.

OSHA - Highly Hazardous:

Not considered highly hazardous by OSHA.

US State

State Right to Know:

CAS# 6131-90-4 is not listed on the following state right to know lists: California, Florida, New Jersey, Pennsylvania, Minnesota, and Massachusetts.

California Regulations:

Not listed.

European/International Regulations

Canadian DSL/NDSL:

CAS# 6131-90-4 is listed on Canada’s DSL List.

Canada Ingredient Disclosure List:

CAS# 6131-90-4 is not listed on the Ingredient Disclosure List.

Section 16: Other Information

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Section 1: Company and Chemical Identification

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Chemical Name: TE (Tris EDTA) buffer

This MSDS contains information about TE (Tris EDTA) buffer and applies to *IMMAGINA BIOTECHNOLOGY* products DNA Extraction Buffer (DEB) (#IBT0411).

Section 2: Composition and Information on Hazardous Ingredients

Component	CAS No	Concentration
Tris	77-86-1	
EDTA Disodium Salt	6381-92-6	

Toxicological Data on Ingredients: Not available**.**

Section 3: Hazards Identification

Hazard Statements
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
Precautionary Statements
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present andeasy to do. Continue rinsing
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P264 - Wash face, hands and any exposed skin thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area

Section 4: First Aid Measures

Eye Contact: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Skin Contact: In case of contact, immediately wash skin with soap and copious amounts of water.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. **Serious Inhalation:** Not available.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Serious Ingestion: Not available.

Section 5: Fire Fighting Measures

Flammability of the Product: May be combustible at high temperature. **Auto-Ignition Temperature:** Not available.

Flash Points: Not available.
Flammable Limits: Not available.
Product of Combustion: Carbon monoxide, carbon dioxide, and nitrogen oxides. **Fire Hazards in Presence of Various Substances:** Not available.

Explosion Hazards in Presence of Various Substances:
Not available.
Fire Fighting Media and Instructions:
SMALL FIRE: Dry chemical powder.
LARGE FIRE: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam. **Special Remarks on Fire Hazards:** Not available.
Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

Section 7: Handling and Storage

Precautions: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage: Keep tightly closed.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Mechanical exhaust required. Safety shower and eye bath.

Personal Protection: Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Hand: Compatible chemical-resistant gloves.
Eye: Chemical safety goggles.
Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Boots. Dust respirator. Gloves.
Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical State and Appearance: Liquid.

Odor: Not available.
Taste: Not available.
Molecular Weight: Not available.
Color: Not available.
pH(1% soln/water): 8.0 +/-0.05

Boiling Point: Not available.
Melting Point: Not available.
Critical Temperature: Not available.
Specific Gravity: 1
Vapour Pressure: Not available.
Vapor Density: Not available.
Volatility: Not available.
Odor Threshold: Not available.
Water/Oil Dist. Coeff: Not available.
Ionicity (in Water): Not available.
Dispersion Properties: Not available.
Solubility: Soluble in water.

Section 10: Stability and Reactivity

Stability: Stable.
Instability Temperature: Not available.
Conditions of Instability: Not available.
Incompatibility with various substances: Bases, Oxidizing agents. **Corrosivity:** Not available.
Special Remarks on Reactivity: Not available.
Special Remarks on Corrosivity: Not available.
Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Skin contact. Eye contact. Ingestion. Inhalation. **Toxicity to Animals:**

Not available.
Chronic Effects on Humans: Not available.
Other Toxic Effects on Humans: Skin Contact: Causes skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: Causes eye irritation.
Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.
Ingestion: May be harmful if swallowed.
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans: Not available.
Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.
BOD5 and COD: Not available.
Product of Biodegradation: Not available.
Toxicity of the Products of Biodegradation: Not available.
Special Remarks on the Products of Biodegradation: Not available..

Section 13: Disposal Considerations

Waste Disposal: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material.

Identification: Not available.
Special Provisions for Transport: Not available.

Section 15: Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory : Tris; EDTA disodium salt.

Other Regulations: EU ADDITIONAL CLASSIFICATION Symbol of Danger: Xi
Indication of Danger: Irritant.
R: 36/37/38
Risk Statements: Irritating to eyes, respiratory system and skin.
S: 26-36
Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.
Other Classifications: WHMIS(Canada): Not available. **DSCL(EEC):** Not available. **HMIS(U.S.A):**
Health Hazard: 2

Fire Hazard: 0
Reactivity: 0
Personal Protection:
National Fire Protection Association (U.S.A): Health: 2
Flammability: 0 **Reactivity:** 0 **Specific hazard:**
Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety goggles.

Section 16: Other Information

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Chemical Name: EDTA Disodium Salt

This MSDS contains information about EDTA buffer and applies to *IMMAGINA BIOTECHNOLOGY* product RNA Extraction Buffer (REB) (#IBT0381).

Section 2: Composition and Information on Hazardous Ingredients

Component	CAS No	Concentration
EDTA Disodium Salt	6381-92-6	

Synonyms Disodium ethylenediaminetetraacetatedihydrate, Edetatedisodium saltdihydrate, Edathamil EDTAdisodium salt

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Section 3: Hazards Identification

Hazard statement(s)
H332 Harmful if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure
H412 Toxic to aquatic life with long lasting effects.
Precautionary statement(s)
P260 Do not breathe dusts or mists.
P271 Use only outdoors or in a well-ventilated area
P273 Avoid release to the environment.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
Immediately call a POISON CENTER/ doctor.
P314 Get Medical advice/attention if you feel unwell.
P501 Dispose of contents/container to an approved waste disposal plant.

Section 4: First Aid Measures

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician**.**

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Indication of any immediate medical attention and special treatment needed

no data available

Section 5: Fire Fighting Measures

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx), Sodium oxides

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary**.**

Further information

no data available

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Avoid breathing dust.For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

Section 7: Handling and Storage

Precautions for safe handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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Section 8: Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated glove**s after use in** accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties

Physical State: Crystalline powder

Appearance: white

Odor: none reported

pH: 5.3 @ aqueous sol.

Vapor Pressure: Not applicable.

Vapor Density: Not available**.**

Evaporation Rate: Not applicable.

Viscosity: Not applicable.

Boiling Point: Decomposes

Freezing/Melting Point:252 deg C

Decomposition Temperature:> 252 deg C

Solubility: Soluble in water

Specific Gravity/Density:Not available.

Molecular Formula:C10H14N2Na2O8 2H2O

Molecular Weight:372.23

Section 10: Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Dust generation, excess heat.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11: Toxicological Information

RTECS#:

Not available.

Carcinogenicity:

Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 139-33-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Section 12: Ecological Information

No information available.

Section 13: Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material.

Identification: Not available.
Special Provisions for Transport: Not available.

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture
Water Hazard Classes (WGK) : Class 2 -
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006
Not listed
Chemical safety assessment
A chemical safety assessment has not been carried out.

Section 16: Other Information

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resulting from handling of from contact with the above product. All risks of use of the product should be assumed by the user.